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Carl J. Roof 37,708
Name of Attorney

Shightee of Attorney

AF/1700

P&G Case 8410M

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of

JOHN K. HOWIE, et al.

Confi

Confirmation No. 5398

Serial No. 10/058,520

: Group Art Unit 1711

Filed January 28, 2002

Examiner SAMUEL A. ACQUAH

For SYNTHESIS OF POLYOL MEDIUM FATTY ACID POLYESTERS

BRIEF ON APPEAL

Mail Stop Appeal Brief – Patents Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed, pursuant to 37 C.F.R. 1.192(a), is Appellants' Brief on Appeal for the above application. The Brief is being forwarded in triplicate.

The fee for this Brief on Appeal is \$320.00 37 CFR 1.17(c).

The Director is hereby authorized to charge the above fee, or any additional fees that may be required, or credit any overpayment to Deposit Account No. 16-2480 in the name of The Procter & Gamble Company. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Carl I Roof

Attorney or Agent for Applicant(s)

Registration No. 37,708

(513) 634-5209

Date: December 12, 2003

Customer No. 27752

PTO/SB/17 (11/01)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL	Complete if Known		
OIPE for FY 2002	Application Number	10/058,520	
Patent fees are subject to annual revision.	Confirmation Number	5398	
DEC 1 6 2003 83	Filing Date	January 28, 2002	
	First Named Inventor	John Keeney Howie, et al.	
THE THE PADMINE THE PARTY OF THE PADMINE T	Examiner Name	Samuel A. Acquah	
ADP	Group/Art Unit	1711	
TOTAL AMOUNT OF PAYMENT (\$) 320.00	Attorney Docket No.	8410M	

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)	
1. [X] The Commissioner is hereby authorized to charge indicated	3. ADDITIONAL FEES	
fees and credit any over payments to:		
	Code (\$) Fee Description Fee Paid 105 130 Surcharge-late filing fee or oath	
Deposit Account Number 16-2480 Deposit Account Name The Procter & Gamble Company	105 130 Surcharge-late filing fee or oath 127 50 Surcharge-late provisional filing fee or cover sheet	
	139 130 Non-English specification []	
[X] Charge Any Additional Fee Required Under status. 37 C.F.R. §§1.16 and 1.17	147 2,520 For filing a request for <i>ex parte</i> reexamination []	
	112 920* Requesting publication of SIR prior to	
	Examiner's action []	
FEE CALCULATION	113 1,840* Requesting publication of SIR after	
	Examiner's action	
1. BASIC FILING FEE - Large Entity	115 110 Extension for reply within 1 st month	
	116 400 Extension for reply within 2 nd month	
Code (\$) Fee Description Fee Paid	117 920 Extension for reply within 3 rd month	
101 740 Utility filing fee []	118 1,440 Extension for reply within 4 th month	
106 330 Design filing fee []	128 1,960 Extension for reply within 5 th month	
108 740 Reissue filing fee []	119 320 Notice of Appeal	
114 160 Provisional filing fee []	120 320 Filing a brief in support of an appeal [X]	
	121 280 Request for oral hearing	
SUBTOTAL (1) (\$)[]	138 1,510 Petition to institute a public use proceeding	
	140 110 Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE - Large Entity	141 1,280 Petition to revive - unintentional	
Extra Fee from Fee	142 1,280 Utility issue fee (or reissue)	
Claims Below Paid	B	
Total Claims [] - 20** = [] x [] = []	122 130 Petitions to the Commissioner [] 123 50 Petitions related to provisional applications []	
Total Claims (1 - 20 (1 A (1)	(37 C.F.R. 1.17(q))	
Independent Claims [] - 3** = [] x [] = []	126 180 Submission of Information Disclosure Statement	
Multiple Dependent [] =[]	146 740 Filing a submission after final rejection	
** or number previously paid, if greater; For Reissues, see below	(37 CFR § 1.129(a))	
	149 740 For each additional invention to be	
Code (\$) Fee Description	examined (37 CFR §1.129(b) []	
103 18 Claims in excess of 20	179 740 Request for Continued Examination (RCE) []	
102 84 Independent claims in excess of 3	169 900 Request for expedited examination [] of a design application	
104 280 Multiple dependent claim, if not paid	091 1280 Acceptance of unintentionally delayed claim for []	
109 84 **Reissue independent claims over original patent	priority under 35 U.S.C. 119, 120, 121, or 365 (a) or (c)	
110 18 **Reissue claims in excess of 20 & over original patent		
	Other fee (specify)	
	Other fee (specify)	
SUBTOTAL (2) (\$)[* Reduced by Basic Filing Fee Paid SUBTOTAL(3) (\$) [320]	

SUBMITTED BY			Comple	Complete (if applicable)	
Name (Print/Type)	Carl J. Roof	Registration No.	37,708	Telephone	513-634-5209
Signature	Carl J. Ros			Date	12/12/2003

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Carl J. Roof 37,708.

Name of Attorney Registration No.

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JOHN K. HOWIE, et al.

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Group Art Unit 1711

Filed January 28, 2002

Examiner SAMUEL A. ACQUAH

For SYNTHESIS OF POLYOL MEDIUM FATTY ACID POLYESTERS

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Respectfully submitted,

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Carl J. Roof 37,708

Name of Attorney/Agent Registration No.

P&G Case 8410M

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of

JOHN K. HOWIE *et al.* : Confirmation No. 5398 Serial No. 10/058,520 : Group Art Unit: 1711

Filed: January 28, 2002 : Examiner: SAMUEL A. ACQUAH

For SYNTHESIS OF POLYOL MEDIUM FATTY ACID POLYESTERS

APPEAL BRIEF

Mail Stop Appeal Brief – Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Appellants hereby appeal to the Board of Appeals the decision of the Examiner dated July 7, 2003, finally rejecting Claims 1-28. This Brief is being filed in triplicate.

REAL PARTY IN INTEREST

The real party in interest is The Procter & Gamble Company, assignee of Appellants' entire right, title and interest in the invention at issue. A copy of this Assignment was recorded at the United States Patent and Trademark Office on March 5, 2002, at reel # 012670, frame # 0090.

RELATED APPEALS AND INTERFERENCES

Appellants, Appellants' undersigned legal representative, and Assignee are not aware of any pending appeals or interferences that would be directly affected by or have a bearing on the Board's decision in the subject Appeal.

STATUS OF CLAIMS

Claims 1-28 are the subject of this appeal. No other claims are pending or allowed. Claims 1-28 were finally rejected in an Office Action dated July 7, 2003 under 35 U.S.C. §102 (b) as being anticipated by each of three cited art references. The Claims on Appeal are set forth in Appendix A.

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STATUS OF AMENDMENTS

A response to the first Office Action was filed May 5, 2003. In that response, Claim 25 was amended to add the language "and wherein the mixture is heated at a pressure sufficient to maintain a substantially constant reflux rate of the fatty acid ester during the reaction of the polyol and the fatty acid ester." Claims 1-28 were finally rejected in an Office Action dated July 7, 2003. No amendments were submitted after final rejection. A Notice of Appeal was filed on October 7, 2003, and was received by the USPTO on October 14, 2003.

SUMMARY OF THE INVENTION

The present invention relates to processes for the production of polyol fatty acid polyesters. Specifically, the present invention relates to the production of polyol fatty acid polyesters esterified with fatty groups having a chain length of about 6 to about 14 total carbon atoms. [page 2, lines 5-11]. The present inventors have surprisingly discovered that it is these particular chain lengths that result in the formation of a polyol fatty acid polyester having a low pour point, which is advantageous for use in various applications where low pour point temperatures are desirable. [page 2, lines 22-25].

More specifically, the present invention relates to: a process for the preparation of polyol fatty acid polyester, comprising heating a mixture of polyol, fatty acid ester, emulsifying agent and catalyst under conditions sufficient to cause reaction of the polyol and the fatty acid ester, wherein the fatty acid chains of the fatty acid ester have from about 6 to about 14 total carbon atoms, wherein the emulsifying agent comprises a fatty acid soap having fatty acid chains of from about 16 to about 22 total carbon atoms, and wherein the mixture is heated at a pressure sufficient to maintain a substantially constant reflux rate of the fatty acid ester during the reaction of the polyol and the fatty acid ester. [Claim 1]. Preferably, the fatty acid chains of the foregoing fatty acid ester have from about 8 to about 12, more preferably from about 8 to about 10, total carbon atoms. [Claims 4-5]. Furthermore, the pour point of the polyol fatty acid polyester is not greater than about -15°C. [Claim 12].

As is understood in the art generally, the transesterification reaction of a polyol and a fatty acid ester results in the formation of an alcohol by-product. In order to promote the reaction of the polyol and fatty acid ester, the alcohol by-product is typically removed, preferably by lowering the partial pressure of alcohol in the headspace below that which is in equilibrium with the liquid phase. [page 8, lines 22-25]. This can be done by using any of a variety of techniques commonly known in the art, such as application of a vacuum, by inert gas sparging, or both. [page 8, lines 26-28]. However, Appellants discovered that because of the relatively low vapor

pressures of the relatively small fatty acid esters used in the present process, employing such techniques not only results in lowering the partial pressure of the alcohol, but also reduces the partial pressure of the fatty acid ester, causing it to vaporize, or 'flash-off.' This is problematic because the fatty acid ester is necessary for esterification onto the polyol. [page 8, line 33 through page 9, line1]. The present inventors discovered that this inadvertent loss of fatty acid ester can be avoided by refluxing the fatty acid esters, preferably using a condenser. [page 9, lines 1-4]. By maintaining reflux conditions during transesterification, the volatile fatty acid esters are retained, while the alcohol by-product is simultaneously removed. Under these reaction conditions, the desired low pour point polyol polyesters are obtained.

ISSUES

Are Claims 1-28 unpatentable under 35 U.S.C. § 102(b) for being anticipated by each of Rizzi, Kenneally and Volpenhein?

GROUPING OF CLAIMS

Claims 1-28 are within the same patentable grouping and, therefore, stand or fall together.

ARGUMENTS

The Rejection under 35 U.S.C. § 102(b)

The Examiner has rejected Claims 1-28 under 35 U.S.C. § 102(b) as anticipated by each of Rizzi et al., U.S. Patent No. 3,963,699 (herein Rizzi"), Volpenhein et al., U.S. Patent No. 4,517,360 (herein "Volpenhein"); and Kenneally et al., U.S. Patent No. 5,491,226 (herein "Kenneally"). Appellants respectfully traverse these rejections.

A. The Cited Art

The Examiner rejected Claims 1-28 under 35 U.S.C. § 102(b) over Rizzi, Volpenhein and Kenneally. Rizzi generally teaches a solvent free transesterification process comprising heating a mixture of a polyol, a fatty acid lower alkyl ester, an alkali metal fatty acid soap, and a basic catalyst to form a homogeneous melt. Subsequently, excess fatty acid lower alkyl ester is added to the reaction product to yield polyol fatty acid polyesters. See <u>Rizzi</u>, col. 2, lines 23-45. Additionally, Rizzi discloses the use of a vacuum or simple distillation to remove the lower alcohol that forms during the reaction. See Id., col.5, lines 7-19.

Similarly, Volpenhein generally discloses an improved solvent free transesterification process comprising mixing and heating (i) a polyol, (ii) a fatty acid ester selected from fatty acid

methyl, 2-methoxy ethyl or benzyl ester, (iii) an alkali metal fatty acid soap, and (iv) a catalyst selected from potassium carbonate, sodium carbonate or barium carbonate to form a homogeneous melt. Excess fatty acid methyl, 2-methoxy ethyl or benzyl ester is then added to the reaction product to yield polyol fatty acid polyester. See <u>Volpenhein</u>, col. 2, lines 40-60. Furthermore, like Rizzi, Volpenhein discloses the use of vacuum or simple distillation to remove the lower alcohol that forms during transesterification. See <u>Id</u>., col. 5, line 62 through col. 6, line 5.

Finally, Kenneally generally teaches a process for preparing fatty acid methyl esters having levels of triglyceride below 0.5%, and the use of those fatty acid methyl esters in a two-stage, solvent-free transesterification reaction to prepare polyol fatty acid polyesters. Kenneally emphasizes that the use of the fatty acid methyl esters allows the formation of fat-free polyol polyester compositions. See Kenneally, col. 3, lines 1-35.

B. The Examiner's Rejection

As mentioned, the Examiner rejected Claims 1-28 of the present invention under 35 U.S.C. § 102(b) as being anticipated by each of Rizzi, Volpenhein and Kenneally. Specifically, the Examiner points to Rizzi, stating "Patentees clearly disclose that the reaction comprising (i) polyol, (ii) fatty acid lower alkyl ester, (iii) alkali metal fatty acid soap, (iv) basic catalyst, is heated at a temperature from about 110 °C to about 180 °C under a pressure of from about 0.1mm Hg to about 760 mm Hg for a time sufficient to form a homogeneous melt of partially esterified polyol and unreacted starting materials." See Paper 5, Page 2. The Examiner then points out that the present invention has similar reaction conditions to those described in the cited art. Next, the Examiner presumes that "even though the prior art does not mention 'constant reflux' this feature would have been *inherent* [emphasis added] in the prior art process because of the reaction conditions." The Examiner concludes by citing similar disclosures in Volpenhein and Kenneally.

C. <u>The Appellants' Response</u>

Where one or more claim limitations are asserted to be inherent in a reference's teachings, the law requires that the requisite characteristic(s) must necessarily be present. MPEP § 2112 provides that the fact that a certain result or characteristic <u>may</u> occur or be present in the cited art is not sufficient to establish the inherency of that result or characteristic. Citing *In re Rijckaert*, 9 F.3d 1531, 1534, 28 USPQ2d 1955, 1957 (Fed. Cir. 1993). "To establish inherency, the extrinsic evidence 'must make clear that the missing descriptive matter is necessarily present in the thing described in the reference by persons of ordinary skill. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a

given set of circumstances is not sufficient." Citing *In re Roberston*, 169 F.3d 743 (Fed. Cir. 1999). Moreover, "[i]n relying upon the theory of inherency, the Examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art." Citing *Ex parte Levy*, 17 USPQ2d 1461, 1464 (Bd. Pat. App. & Inter. 1990). (Emphasis in original.) Appellants respectfully assert that the Examiner has not satisfied the foregoing requirements for supporting a rejection based on inherency, and thus, the rejections under 35 U.S.C. § 102(b) must be reversed.

As described above, the present invention relates to processes for the production of polyol fatty acid polyesters, which utilize constant reflux during transesterification to effectively remove alcohol by-products while retaining the fatty acid esters (having from about 8 to about 16 carbon atoms in the fatty acid chain) necessary for the reaction to continue. As is known in the art, reflux, by definition, requires certain conditions to be present. Among those are the following: first, the temperature and pressure of the reaction vessel must be such that the liquid will evaporate in the first instance; second, there must be a condensing device having a defined surface area, and an appropriate temperature and pressure, located downstream from the reaction vessel for collecting and condensing the evaporated liquid; and, finally, there must be a path for recirculating the condensed liquid back into the reaction vessel while simultaneously removing unwanted by-products. Because these reaction conditions are not taught, either expressly or inherently, in any of the cited art, Appellants respectfully assert that the present invention is not anticipated.

Appellants respectfully assert that it is the foregoing second and third conditions that most clearly distinguish the claimed invention from the cited art. Reflux of the volatilized fatty acid esters does not automatically occur absent the proper reaction conditions. Rather, without such conditions, the volatilized esters will simply be removed from the reaction mixture along with other unwanted products. A discussion of the requisite reflux reaction conditions are set forth in the Specification. See e.g., page 11, lines 11-25.

In contrast to Appellants' teachings regarding employing conditions that result in reflux of the fatty acid ester, none of the cited art describes such reaction conditions. While each reference generally describes a method for preparing polyol polyesters that includes removal of lower alcohol by-product, none teach the use of reaction conditions needed to produce the desired reflux. Because the reflux would not occur without these conditions present, Appellants respectfully assert that the cited art fails to inherently teach the constant reflux required by Appellants' claims.

It is not surprising that the cited art did not discuss the notion of refluxing fatty acid ester starting materials. While the Examiner asserts that the cited art references disclose the use of fatty acid esters having chain lengths that overlap with Appellants', it is clear from their disclosures that the use of fatty acid esters much larger than those employed by Appellants was the emphasis in each case. For example, Rizzi indicates that "Mixtures of fatty acids derived from soybean oil, sunflower oil, safflower oil, and corn oil are especially preferred." See Rizzi at Col.3, lines 57-60. Volpenhein includes the same disclosure at Col.4, lines 18-21. And Keneally states that "Suitable triglycerides, fats and oils specifically include soybean oil, palm oil, cottonseed oil, safflower oil, rapeseed oil (high erucic acid), canola oil (low erucic acid), and corn oil." See Keneally Col. 4, lines 14-16. The working examples of all three references concern the use of these large, relatively non-volatile fatty acid esters. Thus, as there was no specific discussion of using the relatively smaller fatty acid esters defined by Appellants, there was simply no recognition of the problem of loss of fatty acid ester reactant using the reaction conditions described in those references.

In sum, contrary to the Examiner's conclusions, Appellants' respectfully submit that by following the teachings of the cited art, one does not necessarily achieve the fatty acid ester reflux conditions required by all of Appellants' claims. Appellants therefore respectfully assert that the Examiner has failed to establish that the presently claimed process is inherently disclosed in the cited art. Therefore, Appellants request that the rejection of Claims 1-28 under 35 U.S.C. §102 (b), based on inherency, be reversed.

CONCLUSION

It is respectfully submitted that the Examiner's rejection of Claims 1-28 under 35 U.S.C. § 102(b) is improper. Reversal of such rejection is therefore respectfully requested.

> Respectfully submitted, For John Howie et al.

By Call 9, Kos

Carl J. Roof

Attorney for Appellants Registration No. 37,708

Telephone: (513) 634-5209

Date: December 12, 2003 Customer No. 27752

APPENDIX A

Claim 1. A process for the preparation of polyol fatty acid polyester, comprising heating a mixture of polyol, fatty acid ester, emulsifying agent and catalyst under conditions sufficient to cause reaction of the polyol and the fatty acid ester, wherein the fatty acid chains of the fatty acid ester have from about 6 to about 14 total carbon atoms, wherein the emulsifying agent comprises a fatty acid soap having fatty acid chains of from about 16 to about 22 total carbon atoms, and wherein the mixture is heated at a pressure sufficient to maintain a substantially constant reflux rate of the fatty acid ester during the reaction of the polyol and the fatty acid ester.

Claim 2. A process according to claim 1, wherein the process further comprises the step of adding additional fatty acid ester after reaction of the polyol and original fatty acid ester has begun.

Claim 3. A process according to claim 1, wherein the degree of esterification of the polyol fatty acid polyester is at least about 70%.

Claim 4. A process according to claim 1, wherein the fatty acid chains of the fatty acid ester have from about 8 to about 12 total carbon atoms.

Claim 5. A process according to claim 1, wherein the fatty acid chains of the fatty acid ester have from about 8 to about 10 total carbon atoms.

Claim 6. A process according to claim 4, wherein the fatty acid ester comprises a branched chain fatty acid ester.

Claim 7. A process according to claim 6, wherein the fatty acid ester is prepared from an acid having the structure:

$$R^{1} - \overset{R^{2}}{\overset{1}{\underset{R}{\overset{1}{\sim}}}} (CH_{2})_{\overset{n}{\overset{n}{\sim}}} COOH$$

wherein R^1 is a hydrocarbon, R^2 and R^3 are independently selected from hydrogen and a hydrocarbon, n is from 0 to about 11 and the acid has from about 6 to about 14 carbon atoms.

Claim 8. A process according to claim 1, wherein the fatty acid ester is obtained from an oil selected from the group consisting of coconut oil, fractionated coconut oil, and mixtures thereof.

Claim 9. A process according to claim 8, wherein the pressure is decreased during the heating step.

Claim 10. A process according to claim 8, wherein the pressure is in the range of from about 60 to about 190 mm Hg.

Claim 11. A process according to claim 1, wherein the polyol comprises sucrose.

Claim 12. A process according to claim 1, wherein the pour point of the polyol fatty acid polyester is not greater than about -15°C.

Claim 13. A process according to claim 1, wherein the mixture is heated at a temperature in the range of from about 115°C to about 150°C.

Claim 14. A process according to claim 13, wherein the mixture is heated at a temperature of about 135°C.

Claim 15. A process according to claim 1, wherein the catalyst is selected from the group consisting of alkali metals; alloys of at least two alkali metals; alkali metal hydrides; alkali metal lower alkyls; alkali metal alkoxides of lower alcohols; carbonates and bicarbonates of alkali metals; carbonates and bicarbonates of alkaline earth metals; and mixtures thereof.

Claim 16. A process for the preparation of polyol fatty acid polyesters, comprising heating a mixture of polyol, fatty acid ester and catalyst wherein the fatty acid chains of the fatty acid ester have from about 6 to about 14 total carbon atoms and at least 50% the polyol's hydroxyl groups

are esterified and wherein the mixture is heated at a pressure sufficient to maintain a substantially constant reflux rate of the fatty acid ester during the reaction of the polyol and the fatty acid ester.

Claim 17. A process according to claim 16, wherein the polyol comprises sucrose.

Claim 18. A process according to claim 17, wherein the fatty acid chains of the fatty acid ester have from about 8 to about 12 total carbon atoms.

Claim 19. A process according to claim 18, wherein the fatty acid chains of the fatty acid ester have from about 8 to about 10 total carbon atoms.

Claim 20. A process according to claim 18, wherein the fatty acid ester comprises a branched chain fatty acid ester.

Claim 21. A process according to claim 16, wherein the fatty acid ester is obtained from an oil selected from the group consisting of coconut oil, fractionated coconut oil, and mixtures thereof.

Claim 22. A process according to claim 16, wherein the polyol fatty acid polyester has a pour point of not greater than about -15°C.

Claim 23. A process according to claim 16, wherein the mixture further comprises an emulsifying agent comprising a fatty acid soap having fatty acid chains of from about 16 to about 22 total carbon atoms.

Claim 24. A process according to claim 16 wherein no emulsifying agent is added to the mixture.

Claim 25. A process for the preparation of higher polyol fatty acid polyesters, comprising heating a mixture of polyol, fatty acid ester and catalyst to form a polyol fatty acid polyester wherein the polyol fatty acid polyester has a pour point of not greater than about -15°C and wherein the mixture is heated at a pressure sufficient to maintain a substantially constant reflux rate of the fatty acid ester during the reaction of the polyol and the fatty acid ester

Claim 26. A process according to claim 25, wherein the polyol comprises sucrose and the fatty acid chains of the fatty acid ester have from about 6 to about 14 total carbon atoms.

Claim 27. A process according to claim 25, wherein the fatty acid ester comprises a branched chain fatty acid ester.

Claim 28. A process according to claim 25, wherein the mixture further comprises an emulsifying agent comprising a fatty acid soap having fatty acid chains of from about 16 to about 22 total carbon atoms.